The following corrections or additions to the January 15, 1998 list were made in November, 1998

New Approvals

ANADA Number: 200-225

Pioneer Product: 112-051

Trade Name: Prohibit[™] Soluble Drench Powder

Ingredients: Levamisole hydrochloride Sponsor: Agri Laboratories, Ltd.

Approval Date: 08/27/98
Status: Over-the-counter

Route: Oral

Species: Bovine, ovine Drug Form: Powder

Concentration: 46.8 g levamisole hydrochloride activity in 52 g of powder (packet) or 544.5 g levamisole

hydrochloride activity in 605 g of powder (bottle).

Indications: As an anthelmintic effective against stomach worms (Haemonchus, Trichostrongylus, Ostertagia),

intestinal worms (Trichostrongylus, Cooperia, Nematodirus, Bunostomum, Oesophagostomum), lung

worms (Dictyocaulus) in cattle and sheep; and Chabertia in sheep only.

Tolerance: 21CFR 556.350: A tolerance of 0.1 ppm is established for levamisole residues in the uncooked edible

tissues of cattle and sheep.

Withdrawal: <u>Cattle</u>: 2 days

Sheep: 3 days

21CFR 520.1242a

ANADA Number: 200-238

Pioneer Product: 046-285

Trade Name: Sulfasol® Soluble Powder

Ingredients: Sulfadimethoxine Sponsor: Med-Pharmex, Inc.

Approval Date: 07/28/98

Status: Over-the-counter

Route: Oral

Species: Avian (chickens, turkeys), bovine (dairy calves, dairy heifers, beef cattle)

Drug Form: Powder

Concentration: 94.6 g sulfadimethoxine (base)/107 g packet

Indications: Chickens (broilers and replacements only): For the treatment of disease outbreaks of coccidiosis, fowl

cholera, and infectious coryza.

<u>Turkeys</u> (meat producing only): For the treatment of disease outbreaks of coccidiosis and fowl cholera. <u>Dairy calves, dairy heifers, and beef cattle</u>: For the treatment of shipping fever complex and bacterial pneumonia associated with *Pasteurella spp.* sensitive to sulfadimethoxine and calf diphtheria and foot

rot associated with Sphaerophorus necrophorus sensitive to sulfadimethoxine.

Tolerance: 21CFR 556.640: Tolerances are established for residues of sulfadimethoxine in uncooked edible

tissues at 0.1 ppm, and milk at 0.01 ppm (negligible residue).

Withdrawal: <u>Chickens</u> (broilers and replacements only): 5 days

Turkeys (meat producing only): 5 days

Dairy calves, dairy heifers, and beef cattle: 7 days

21CFR 520.2220a

ANADA Number: 200-251

Pioneer Product: 031-205 Trade Name: Sulforal®

Ingredients: Sulfadimethoxine Sponsor: Med-Pharmex, Inc.

Approval Date: 08/03/98

Status: Over-the-counter

Route: Oral

Species: Avian (chickens, turkeys), bovine (dairy calves, dairy heifers, beef cattle)

Drug Form: Liquid (solution)

Concentration: 12.5 %

Indications: Chickens (broilers and replacements): For the treatment of disease outbreaks of coccidiosis, fowl

cholera, and infectious coryza.

<u>Turkeys</u> (meat producing): For the treatment of disease outbreaks of coccidiosis and fowl cholera. <u>Dairy calves, dairy heifers, and beef cattle</u>: For the treatment of shipping fever complex and bacterial pneumonia associated with *Pasteurella spp.* sensitive to sulfadimethoxine and calf diphtheria and foot

rot associated with Sphaerophorus necrophorus sensitive to sulfadimethoxine.

Tolerance: 21CFR 556.640: Tolerances are established for residues of sulfadimethoxine in uncooked edible

tissues at 0.1 ppm (negligible residue) and in milk at 0.01 ppm (negligible residue).

Withdrawal: Chickens (broilers and replacements): 5 days

Turkeys (meat producing): 5 days

Dairy calves, dairy heifers, and beef cattle: 7 days

21CFR 520.2220a

ANADA Number: 200-259

Pioneer Product: 200-091

Trade Name: ChlorMax[™], Sacox[®], 3-Nitro[®]

Ingredients: Chlortetracycline, salinomycin sodium, roxarsone

Sponsor: Alpharma, Inc. Approval Date: 09/21/98 Status: Over-the-counter

Route: Oral

Species: Avian (broiler chickens)

Drug Form: Type A medicated article to make Type C medicated feed

Concentration: Chlortetracycline – 50, 65, and 70 g/lb in Type A Medicated Articles

Salinomycin – 30 and 60 g/lb in Type A Medicated Articles

Roxarsone - 10, 20 and 50% (45.4, 90.8, 227 g/lb) in Type A Medicated Articles

Indications: For the prevention of coccidiosis caused by Eimeria tenella, E. necatrix, E. acervulina, E. maxima, E.

brunetti, and E. mivati, including some field strains of E. tenella that are more susceptible to roxarsone combined with salinomycin than salinomycin alone, and as an aid in the reduction of mortality due to

E. coli infections susceptible to such treatments.

Tolerance: 21CFR 556.150 Chlortetracycline: Tolerances for the sum of residues of the tetracycline, including

chlortetracycline in tissues of chickens are: 2 ppm in muscle, 6 ppm in liver, and 12 ppm in fat. 21CFR 556.60 Roxarsone: Tolerances of arsenic (from roxarsone) are established at 0.5 ppm in uncooked muscle tissue and 2 ppm in uncooked edible by-products with liver as the target tissue.

Salinomycin does not require a tolerance.

Withdrawal: 5 days

This ANADA provides for the combined use of three approved Type A Medicated Articles in Type C medicated feeds, rather than a premix incorporating all three of these.

21CFR 558.550

ANADA Number: 200-260

Pioneer Product: 140-867

Trade Name: ChlorMax[™], Bio-Cox[®], 3-Nitro[®]

Ingredients: Chlortetracycline, salinomycin sodium, roxarsone

Sponsor: Alpharma, Inc.
Approval Date: 09/21/98
Status: Over-the-counter

Route: Oral

Species: Avian (broiler chickens)

Drug Form: Type A medicated article to make Type C medicated feed

Concentration: Chlortetracycline – 50, 65, and 70 g/lb in Type A Medicated Articles

Salinomycin – 30 and 60 g/lb in Type A Medicated Articles

Roxarsone – 10, 20 and 50% (45.4, 90.8, 227 g/lb) in Type A Medicated Articles

Indications: For the prevention of coccidiosis caused by Eimeria tenella, E. necatrix, E. acervulina, E. maxima, E.

brunetti, and E. mivati, including some field strains of E. tenella that are more susceptible to roxarsone combined with salinomycin than salinomycin alone, and as an aid in the reduction of mortality due to

E. coli infections susceptible to such treatments.

Tolerance: 21CFR 556.150 Chlortetracycline: Tolerances for the sum of residues of the tetracycline, including

chlortetracycline in tissues of chickens are: 2 ppm in muscle, 6 ppm in liver, and 12 ppm in fat. 21CFR 556.60 Roxarsone: Tolerances of arsenic (from roxarsone) are established at 0.5 ppm in uncooked muscle tissue and 2 ppm in uncooked edible by-products with liver as the target tissue.

Salinomycin does not require a tolerance.

Withdrawal: 5 days

This ANADA provides for the combined use of three approved Type A Medicated Articles in Type C medicated feeds, rather than a premix incorporating all three of these.

21CFR 558.550

Supplemental Approvals

NADA Number: 122-578

Trade Name: Hyvisc® Sterile Injection
Ingredients: Hyaluronate sodium
Sponsor: Anika Therapeutics, Inc.

Approval Date: 09/30/98 Status: Prescripti

Status: Prescription only Route: Intra-articular

Species: Equine

Drug Form: Liquid (solution)
Concentration: 11 mg/mL

Indications: For the treatment of joint dysfunction due to non-infectious synovitis associated with equine

osteoarthritis.

This supplemental application provides for the increase in concentration of hyaluronate sodium from 10 mg/mL to 11 mg/mL and increase the dose from 20 mg to 22 mg for small joints and from 40 mg to 44 mg for large joints.

21CFR 522.1145 and 510.600

NADA Number: 041-061

Trade Name: Mecadox® 10 Type A Medicated Article

Ingredients: Carbadox
Sponsor: Pfizer, Inc.
Approval Date: 10/05/98
Status: Over-the-counter

Route: Oral Species: Porcine

Drug Form: Type A medicated article to make Type B and Type C medicated feeds.

Concentration: 10 g/lb

Indications: For control of swine dysentery (vibrionic dysentery, bloody scours, or hemorrhagic dysentery); bacterial

swine enteritis (salmonellosis or necrotic enteritis caused by Salmonella choleraesuis); and for

increased weight gain and improved feed efficiency in growing swine.

Tolerance: 21CFR 556.100: A tolerance of 30 ppb is established for residues of quinoxaline-2-carboxylic acid

(marker residue) in liver (target tissue) of swine.

Withdrawal: 42 days

This supplemental application provides for the establishment of a 42 day slaughter withdrawal period for carbadox in swine tissues and a limitation against use in pregnant swine or swine intended for breeding purposes.

21CFR 558.115

NADA Number: 141-079

Trade Name: Ivomec[®] Eprinex[™] Pour-On for Beef and Dairy Cattle

Ingredients: Eprinomectin
Sponsor: Merial Ltd.
Approval Date: 08/09/98
Status: Over-the-counter

Route: Topical Species: Bovine

Drug Form: Liquid (solution)
Concentration: 5 mg/mL

Indications: For the treatment and control of the following parasites:

Gastrointestinal Roundworms - Haemonchus placei (adults and L4), Ostertagia ostertagi (adults and L4, including inhibited L4), Trichostrongylus axei (adults and L4), Trichostrongylus colubriformis (adults and L4), Trichostrongylus longispicularis (adults only), Cooperia oncophora (adults and L4), Cooperia punctata (adults and L4), Cooperia surnabada (adults and L4), Nematodirus helvetianus (adults and L4), Oesophagostomum radiatum (adults and L4), Bunostomum phlebotomum (adults and

L4), Strongyloides papillosus (adults only), Trichuris spp (adults only)

<u>Lung worms</u> - *Dictyocaulus viviparus* (adults and L4)

Cattle Grubs (all parasitic stages) - Hypoderma lineatum, Hypoderma bovis

 $\underline{\text{Lice}}-\textit{Damalinia bovis, Linognathus vituli, Haematopinus eurysternus, Solenopotes capillatus}$

 $\underline{Mange\ Mites}-Chorioptes\ bovis,\ Sarcoptes\ scabiei$

<u>Horn Flies</u> – Haematobia irritans

Tolerance: 21CFR 556.227: The Acceptable Daily Intake (ADI) for total residues of eprinomectin is 10 mcg/kg

body weight/day. A tolerance of 100 ppb is established for residues of eprinomectin B₁a (marker

residue) in muscle, 12 ppb in milk, and 4.8 ppm in liver (target tissue).

Withdrawal: Zero days

Patent Number: 4,427,663 Expiration Date: 03/16/2002

5,602,107 05/10/2013

Exclusivity: 3 years

This supplemental application provides for adding to the indications for the treatment and control of adult *Strongyloides* papillosus and adult *Trichostrongylus longispicularis* and removes the age restriction for use in cattle under 8 weeks of age.

21CFR 524.814 and 556.227

NADA Number: 141-043

Trade Name: Synovex® PlusTM

Ingredients: Trenbolone acetate, estradiol benzoate

Sponsor: Fort Dodge Animal Health, Division of American Home Products Corp.

Approval Date: 09/30/98

Status: Over-the-counter

Route: Subcutaneous (implantation, ear)
Species: Bovine (heifers and steers)

Drug Form: Implant

Concentration: 200 mg trenbolone acetate and 28 mg estradiol benzoate/implant

Indications: For increased rate of weight gain in heifers fed in confinement for slaughter.

Tolerance: 21CFR 556.739 Trenbolone: A tolerance for tenbolone residues in uncooked edible tissues of cattle is

not needed. The safe concentrations for total trenbolone residues in uncooked edible tissues of cattle

is 50 ppb for muscle, 100 ppb for liver, 150 ppb for kidney, and 200 ppb for fat.

21CFR 556.240 Estradiol: Residues of estradiol and related esters may not exceed the following increments above the concentrations of estradiol naturally present in untreated animals; in uncooked edible tissues of heifers, steers, and calves, 120 ppt for muscle, 480 ppt in fat, 360 ppt for kidney, and

240 ppt for liver.

Withdrawal: Not required. Exclusivity: 3 years

This supplemental application provides for the implantation of $Synovex^{@} Plus^{^{TM}}$ in a new class of cattle (heifers) fed in confinement for slaughter for increased rate of weight gain.

21CFR 522.2478

NADA Number: 048-761

Trade Name: Aureomycin Type A Medicated Article

Ingredients: Chlortetracycline Sponsor: Roche Vitamins, Inc.

Approval Date: 10/26/98

Status: Over-the-counter Withdrawal: Zero days

This supplemental application provides for reducing the withdrawal period from 24 hours to zero days when administered at the 500 g/ton level for 5 days for reduction of mortality due to *E. coli* infections susceptible to chlortetracycline.

21CFR 559.128

Technical Amendment

NADA Number: 128-620

Trade Name: Safe-Guard® and Panacur® Suspension 10%

Ingredients: Fenbendazole
Sponsor: Hoechst Roussel Vet

Effective Date: 11/18/98

Status: Over-the-counter and prescription only

Route: Oral Species: Bovine

Drug Form: Liquid (suspension)
Concentration: 100 mg/mL

Indications: For the removal and control of:

Cattle:

<u>Lung worm</u> - *Dictyocaulus viviparus*

Stomach worms - Ostertagia ostertagi (adults) - Haemonchus contortus/placei (adult and L4),

Trichostrongylus axei

<u>Intestinal worms</u> (adult and L4) - Bunostomum phlebotomum, Nematodirus helvetianus, Cooperia oncophora, Cooperia punctata, Trichostrongylus colubriformis, Oesophagostomum radiatum

Beef cattle only:

<u>Stomach worm - Ostertagia ostertagi</u> type II Ostertagiasis (4th stage inhibited larvae)

<u>Tapeworm</u> - Moniezia benedi

Tolerance: 21CFR 556.275: A tolerance of 0.8 ppm parent fenbendazole (the marker residue) in cattle liver (the

target tissue) was established with the original approval. The safe concentrations for total residues of fenbendazole in edible tissues of cattle are 5 ppm in muscle, 10 ppm in liver, 15 ppm in kidney, and 20 ppm in fat. A safe concentration for total residues of fenbendazole of 1.67 ppm and 0.6 ppm

tolerance was established.

Withdrawal: 8 days; zero days for milk.

This technical amendment and supplemental application clarifies the drug dose used to treat various classes of cattle, and provides for the removal and control of gastrointestinal parasites and lung worm in a new class of cattle, dairy cattle of breeding age.

21CFR 520.905a

Change of Sponsor Name

NADA Number: 122-578

From: Anika Research, Inc. To: Anika Therapeutics, Inc. 236 West Cummings Park Woburn, MA 01801 Drug labeler code: 060865

Change of Sponsor

NADA Number: 200-073

From: American Veterinary Products, Inc. To: Veterinary Research Associates, Inc.

20 Old Dock Rd. Yaphank, NY 11980 Drug labeler code: 064408